

Sovchem[®] NDBC

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
Manufacturer Sovereign Chemical Company 4040 Embassy Parkway, Suite 190 Akron, OH 44333	Emergency Contact Chemtrec: 1-800-424-9300 (USA) (1)330-542-8400 (outside USA)
Trade Name(s): Sovchem [®] NDBC	Chemical Name: Nickel, bis (dibutylcarbamodithioato-s-s')
Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available.	Application of the substance/the preparation: Initial product for chemical reactions.
Issued By: Sovereign Chemical Company According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS	Date of Issue: May 1, 2023

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Information in accordance with US 29 CFR 1910.1200 (Hazcom 2012) and Regulation (EC) No 1272/2008

Serious eye damage/eye irritation, Category 2 - H319

Carcinogenicity, Category 2 - H351

Hazardous to the aquatic environment — Chronic Hazard, Category 4 - H413

2.2 Label elements

The substance is classified and labeled according to the CLP regulation.

Hazard pictograms



GHS07 GHS08

Signal word: Warning

Hazard-determining components of labeling: Nickel, bis(dibutylcarbamo- dithioato-s-s')

Hazard Statements

H319 - Causes serious eye irritation.

H351 - Suspected of causing cancer.

H413 - May cause long lasting harmful effects to aquatic life.

Precautionary Statements P201 - Obtain special instructions before use.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face

protection/hearing protection.
 P308+P313 - IF exposed or concerned: Get medical advice/attention.
 P337+P313 - If eye irritation persists: Get medical advice/attention.
 P501 - Dispose of contents/container in accordance with local, regional, national and/or international regulation.

2.3 Other hazards
 Results of PBT and vPvB assessment
 PBT: Not applicable.
 vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Chemical Name	CAS No	EC No	Weight %	Classification
Nickel, bis(dibutylcarbamodithioato-s-s')	13927-77-0	237-696-2	95-99%	Eye Irrit. 2, H319 Carc. 2, H351
Dangerous components				Aquatic Chronic 4, H413

The remaining unspecified ingredients are impurities and are not hazardous.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General information

Immediately remove any clothing soiled by the product.
 Symptoms of poisoning may even occur after several hours; therefore, medical observation for at least 48 hours after the accident.

After inhalation

Supply fresh air.
 Seek immediate medical advice.

After skin contact

Immediately wash with water and soap and rinse thoroughly.
 If skin irritation continues, consult a doctor.

After eye contact

Remove contact lenses if worn.
 Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing

Rinse out mouth and then drink plenty of water.
 Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Allergic reactions
- Gastric or intestinal disorders
- Dizziness
- Coughing
- Disorientation

Hazards

Danger of impaired breathing.

Danger of convulsion.
Danger of disturbed cardiac rhythm.
No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Contains an organic nickel salt.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.

If necessary, oxygen respiration treatment.

Medical supervision for at least 48 hours.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons, unsuitable extinguishing agents: None.

5.2 Special hazards arising from the substance or mixture: Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

Protective equipment

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information: Cool endangered receptacles with water spray.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Isolate area and prevent access.

Ensure adequate ventilation

6.2 Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Do not allow to penetrate the ground/soil.

6.3 Methods and material for containment and cleaning up

Pick up mechanically.

Do not flush with water or aqueous cleansing agents

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
 Prevent formation of dust.
 Take note of emission threshold.
 Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.
 Any unavoidable deposit of dust must be regularly removed.
 Use appropriate industrial vacuum cleaners or central vacuum systems for dust removal.
 Ensure good ventilation/exhaustion at the workplace.
 Open and handle receptacle with care.
 Information about fire and explosion protection
 Keep respiratory protective device available.
 Dust can combine with air to form an explosive mixture.

7.2 Conditions for safe storage, including any incompatibilities
 Storage
 Requirements to be met by storerooms and receptacles
 Store in a cool location.
 Protect from humidity and water.
 Avoid storage near extreme heat, ignition sources or open flame.
 Information about storage in one common storage facility
 Store away from food stuffs.
 Do not store together with oxidizing and acidic materials.
 Further information about storage conditions
 Store in cool, dry conditions in well-sealed receptacles.
 Store receptacle in a well-ventilated area.
 Open receptacle only under localized extractor facilities.
 Protect from humidity and water.
 Keep container tightly sealed.

7.3 Specific end use(s): No further relevant information available.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters
 Ingredients with limit values that require monitoring at the workplace
 13927-77-0 Nickel, bis(dibutylcarbamo- dithioato-s-s')

TWA (USA)	1.0 mg/m ³ As Ni
-----------	--------------------------------

DNELs: No further relevant information available.
 PNECs: No further relevant information available.
 Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls
 Personal protective equipment
 General protective and hygienic measures
 The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Do not inhale dust / smoke / mist.
Avoid contact with the eyes and skin.
Respiratory protection



Combined Organic Vapor and Particulate Respirator is recommended for use during all processing

Protection of hands



Protective gloves

The glove material must be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests, no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time must be found out by the manufacturer of the protective gloves and must be observed.

Eye protection



Safety glasses with side shields or face shield strongly suggested.

Body protection



Apron



Boots

Wear appropriate protective face shield, airline supplied mask or hood, or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166 relative to the quantities being handled.

Protective work clothing

Limitation and supervision of exposure into the environment: No further relevant information available.

Risk management measures

See Section 7 for additional information.

No further relevant information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information

Appearance Form: Powder. Color: Green.	Change in Condition Melting Point/Melting Range: 90.2 °C Boiling Point/Boiling Range: 521.96 °C
Odor: Characteristic.	Octanol/Water Partition Coefficient: Not determined.
Odor threshold: Not determined.	pH value: Not applicable.
Vapor pressure: 0.081 Pa (25 °C)	Flash point: 260°C
Density at 20 °C: 1.3 g/cm ³ .	Flammability (solid, gaseous): Product is not flammable.
Relative density: 1.3	Ignition temperature: Not determined.
Vapor density: Not applicable.	Decomposition temperature: Not determined.
Evaporation rate: Not applicable.	Self-igniting: Not determined.
Solubility in / Miscibility with water: Water: 8.93 µg/L (20 °C). Soluble in benzene, carbon disulfide, organic liquids, including fats and oils acetone	Danger of explosion: Product does not present an explosion hazard.
Viscosity Dynamic: Not applicable. Kinematic: Not applicable.	Explosion limits Lower: Not determined. Upper: Not determined.
Organic solvents: Not determined.	Solids content: Not determined.

9.2 Other information: No further relevant information available.

10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable under recommended storage and handling conditions (see section 7).

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing. Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat, flames and sparks. Incompatible materials.

10.5. Incompatible materials

Strong oxidizing agents, strong acids.

10.6. Hazardous decomposition products

Carbon oxides, nitrogen oxides, ammonia, hydrogen cyanide, oxides of nickel.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Nickel-dibutylthiocarbamate(CAS #: 13927-77-0)

LD50 oral rat > 5000mg/kg



Safety Data Sheet

LD50 dermal rabbit > 2000 mg/kg
LC50 Inhalation - Rat > 0.416 mg/L/4h

Skin corrosion/irritation
Non-irritating to the skin.

Serious eye damage/eye irritation
Causes serious eye irritation.

Sensitization
Not classified

Germ cell mutagenicity
Not classified

Carcinogenicity
Suspected of causing cancer.

Reproductive toxicity
Not classified

STOT - single exposure
Not classified.

STOT - repeated exposure
Not classified.

Aspiration hazard
Not classified.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
Aquatic toxicity: May cause long lasting harmful effects to aquatic life.

12.2. Persistence and degradability
Nickel-dibuthyldithiocarbamate (CAS #: 13927-77-0)
Persistence and degradability Not readily biodegradable.
Biodegradation 0 % (28 day)

12.3. Bioaccumulative potential
Nickel-dibuthyldithiocarbamate(CAS #: 13927-77-0)
BCF - Fish 75.92
Partition coefficient n-octanol/water
(Log Pow)
5.44 (25°C)

12.4. Mobility in soil
Log Koc: 6.254

12.5. Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Endocrine disrupting properties

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

12.7. Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. After prior treatment product must be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

Un-cleaned packaging

Recommendation: Disposal must be made according to official regulations.

14. TRANSPORTATION INFORMATION

14.1 UN-Number

DOT, ADR, ADN, IMDG, IATA	Not regulated
---------------------------	---------------

14.2 UN proper shipping name

DOT, ADR, ADN, IMDG, IATA	Not regulated
---------------------------	---------------

14.3 Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA	Not regulated
---------------------------	---------------

14.4 Packing group

DOT, ADR, IMDG, IATA	Not regulated
----------------------	---------------

14.5 Environmental hazards

Marine pollutant	No
------------------	----

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

UN "Model Regulation"

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
United States (USA)

SARA Section 355 (extremely hazardous substances)	Substance is not listed.
SARA Section 313 (Specific toxic chemical listings)	Nickel Compounds.
TSCA (Toxic Substances Control Act)	Substance is listed.
Proposition 65 (California)	
Chemicals known to cause cancer	As nickel salts. 13927-77-0 Nickel, bis(dibutylcarbamo- dithioato-s- s')
Chemicals known to cause reproductive toxicity for females	Substance is not listed.
Chemicals known to cause reproductive toxicity for males	Substance is not listed.
Chemicals known to cause developmental toxicity	Substance is not listed.
Carcinogenic Categories	
EPA (Environmental Protection Agency)	Substance is not listed.
IARC (International Agency for Research on Cancer)	As nickel salts. 13927-77-0 Nickel, bis(dibutylcarbamo- dithioato-s- s').
TLV (Threshold Limit Value established by ACGIH)	Substance is not listed.
NIOSH-Ca (National Institute for Occupational Safety and Health)	Substance is not listed.
OSHA-Ca (Occupational Safety & Health Administration)	Substance is not listed.
Canada	
Canadian Domestic Substances List (DSL)	Substance is listed.
Canadian Ingredient Disclosure list (limit 0.1%)	Substance is not listed.
Canadian Ingredient Disclosure list (limit 1%)	As nickel salts. 13927-77-0 Nickel, bis(dibutylcarbamo- dithioato-s- s')

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.



Safety Data Sheet

Dear Customer:

Section 313 of SARA Title III (also known as the Emergency Planning and Community Right to Know Act, or EPCRA) requires certain suppliers of mixtures or trade name products to notify their customers when such mixtures or trade name products contain chemicals listed in Section 313. This letter constitutes a supplier notification that the following product you ordered contains one or more chemicals on the Section 313 list (*) as noted below:

Product Name: Sovchem® NDBC		
Chemical Name (*)	CAS #	% Composition
Nickel dibutyldithiocarbamate *	13927-77-0	>95%

* Nickel dibutyldithiocarbamate is under the general category of nickel compounds

In addition, an SDS for this product is enclosed for your use.

If you are a distributor and you sell this product to another customer (s), you are required under Section 313 to furnish the same information and SDS to that customer (s).

If you have any questions, please do not hesitate to contact our Technical Department at 330.542.8400.

Sovereign Chemical Company